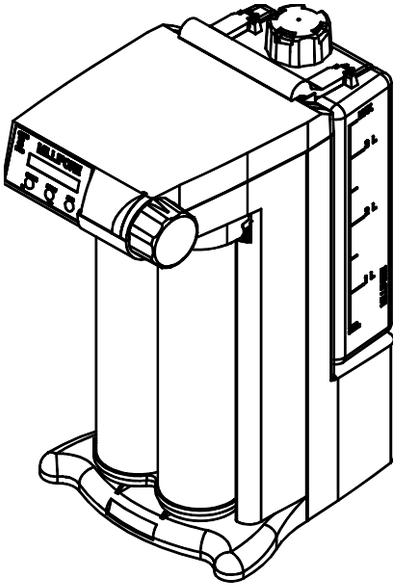
Operating and Maintenance Manual



Simplicity™

Water Purification System

MILLIPORE

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User manual: **PF06022 (Rev. 1 - 05/04)**

Manufacturer : MILLIPORE S.A.S., 67120 MOLSHEIM, FRANCE

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Congratulations on your purchase of the Simplicity Ultrapure Water System. This system has been manufactured using state-of-the-art technologies and the highest quality components to insure years of reliable performance. The system has been designed to be extremely easy-to-use and maintain. This manual contains important safety information so we urge you to please read it thoroughly before using the system. If you should have any questions or comments on this system, please contact your local Millipore representative or visit our web site at http://www.millipore.com.

DECLARATION OF CONFORMITY
EUROPEAN UNION EC DIRECTIVES

CE Directive 89/336/CEE

Directive 73/23/CEE

- These Lab Water Systems are designed and manufactured in application of the following European Council directives :

  - 89/336/CEE relating to Electromagnetic compatibility
  - 73/23/CEE relating to electrical equipment designed for use within certain voltage limits

- Standards to which conformity is declared as applicable are the following :

  - EN 55022-1 : 1992
  - EN 50082-1 : 1994
  - EN 61010-1 : 1993 /A2 : 1995

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At the back of the document: **ILLUSTRATIONS and TECHNICAL ASSISTANCE**

This manual describes how to install, maintain and use the Simplicity. It is recommended that this document is completely read before plugging in the unit to a source of electrical power. The system is easy to use and to maintain. However, it is wise to be familiar with all its functions as described in this manual.

Warnings

Warning and Attention symbols will be placed near text when important information is present.

: Attention (Important Details)

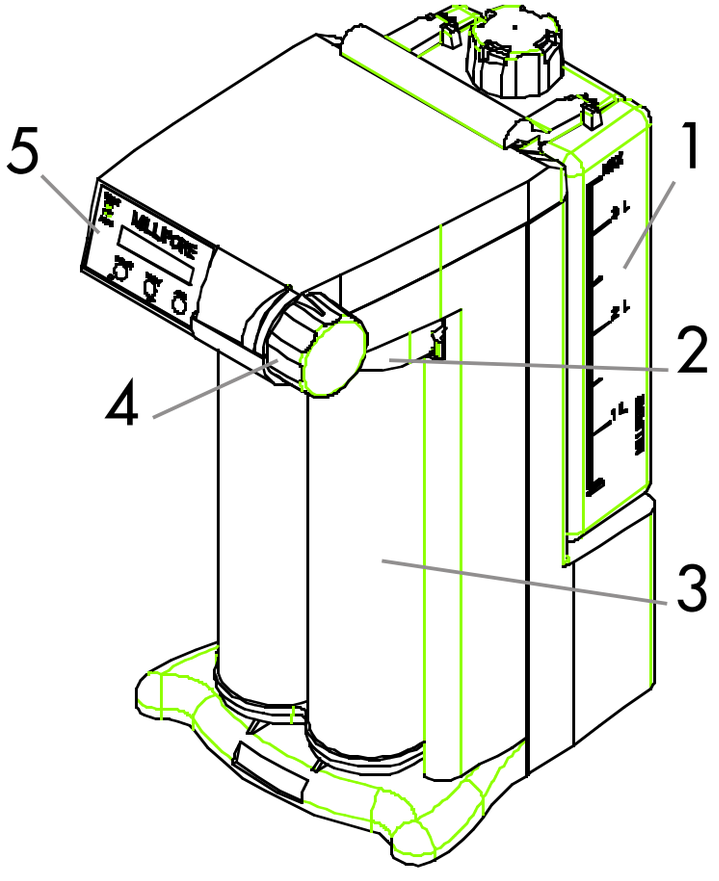
: Refer to Documentation

Illustrations

Illustrations are referenced in the text and are located in the back of this manual.

General Information

Simplicity is a water purification system fed through an integrated vented storage reservoir. The system provides the final "polish" to remove any remaining contaminants in water pretreated by reverse osmosis, electrodeionization (Elix), distillation or deionization.
The Simplicity system is designed to produce water of Type 1 quality. This is equal to or better than ASTM, CAP and NCCLS Type 1 water quality standards.



Reservoir	1
SimPak locking handle	2
SimPak	3
Dispensing valve button	4
Front panel with Liquid Crystal Display and Keypad	5

System performance

Purified water quality

	Simplicity	Simplicity 185
Resistivity	18.2 MΩ-cm at 25 °C	18.2 MΩ-cm at 25 °C
TOC*	15 ppb	5 ppb
Micro-organisms	≤ 1 cfu/ml	≤ 1 cfu/ml
Particles (0.22 µm)	< 1 / ml	< 1 / ml

Flowrates

Typical product water flowrate	Up to 0.5 L/mn	0.5 L/mn
Sound level	48 dB A at 1 metre	48 dB A at 1 metre

* Test conditions: System was equipped with a SimPak 1 purification Pack. The feedwater for the reservoir came from an Elix system. TOC in the feedwater was < 50 ppb. The quality of the product water can vary as a function of the quality of the feedwater.

Environmental Specifications

Storage temperature	-40°C to 70°C at 5% to 80% RH
Operating temperature	5°C to 35°C at 5% to 80% RH
Feed water temperature	5°C to 30°C at 5% to 80% RH
Altitude range	2000 meters

This equipment is designed to be used in installation/overvoltage category II and pollution degree II.

Electrical Operating Conditions

Electrical consumption	30 VA
Electrical voltage	100, 120 VAC +/– 10%, 50/60 HZ +/– 3%
UV lamp lifetime after installation	2 years (700 days)
Main power cord length	2.4 meters / 8.3 feet

Composition of materials

Part	Material	Part	Material
Pack adapter:	PE	Final Filter:	Polycarbonate, Polysulfone
Pack:	PP	Fitting:	PE, PA,
3.5 L reservoir:	HDPE	Resistivity cell:	Stainless steel 316 L
Reservoir adapter:	POM		
Pump head:	PP, Santoprene®	Tubing:	PE
		Three way valve:	PP, POM
UV lamp and housing:	Ultrapure Quartz, SST	O-rings:	EPDM

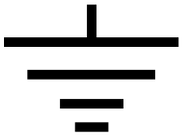
Dimensions and weight

Height	460 mm (18.11 inches)
Length	248 mm (9.76 inches)
Depth	345 mm (13.58 inches)
Weight of dry system in his box	Simplicity: 5.7 Kg (12.7 lbs) Simplicity 185: 6.3 Kg (14.0 lbs)
Operating weight with full reservoir	Simplicity:10.4 Kg (23.1 lbs) Simplicity 185: 11.1 Kg (24.6 lbs)
Space required to remove and install the reservoir.	20 cm around the unit (0.5 inches)

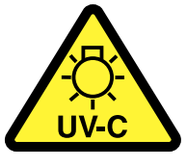
Safety information

: Danger!

: Electrical Danger!



: Ground Connection!



: Danger : UV Radiation!

Unpacking

After unpacking the shipping container you should find (Figure 2):

		Present? Yes	Present? No
(A)	Simplicity water purification system with reservoir		
(B)	User manual		
(C)	Point-of-use valve hose barb connector for purging a new SimPak		
Ordered separately			
(D)	SimPak purification pack		
(E)	Reservoir vent filter		
(F)	SimFilter		

Selecting a site for the Simplicity system

⚠ Warning: Do not plug in the electrical power cord into a power source at this step.

The Simplicity system has been designed to be placed on any laboratory bench (or suitable alternative). See the section "Dimensions" page 10 of this manual for information related to the space needed to remove and install the reservoir.

Filling the Integral Reservoir

Figure 3

1. Raise the reservoir-locking handle to vertical position. (A)
2. Pull out the reservoir (B) using the locking handle.
3. Remove the reservoir cap (C) by twisting counter-clockwise 1/4 turn.
4. Fill the reservoir, re-install it and secure the locking handle into the body of the system.

Installing the Reservoir Vent Filter

1. Install the Reservoir vent filter (D) into the reservoir cap.
2. Replace the reservoir cap by twisting clockwise 1/4 turn

Installating the purification Pack

Figure 4

1. Swing the Pack locking handle to the left by pressing on the locking tab (A).
2. Remove the two protective caps on the Simplicity connector (B).
3. Remove the two protective caps on the SimPak cartridge (C), Wet the two O-rings of the Pack with a few drops of water.
4. Push the SimPak (D) firmly into the unit.
5. Secure the pak in place by closing the locking handle (E). The locking handle should engage easily. If you need to force the handle, then the pack is not fully positioned into the pack adapter.

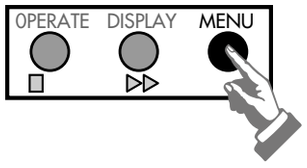
Electrical connection

⚠ **The electrical wall outlet must be accessible in the event that the Simplicity must be unplugged quickly. To turn off the Simplicity, remove the power cord from the wall outlet. The AC plug is the main disconnect for the system.**

1. Connect the power cord to a grounded power source.
2. If necessary, put the system in STANDBY mode by depressing the OPERATE/STANDBY button for two seconds.
3. Check that the point of use valve knob is in the upright position (closed).

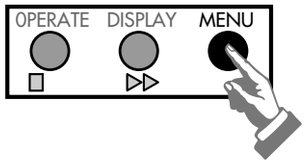
Language Selection

It is possible to change the displayed language on the LCD. The choices for the languages are English, French (Français), German (Deutsch), Spanish (Español), Italian (Italiano) and Japanese ((ゲンゴ ： ニホンゴ).



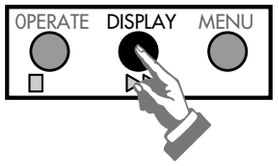
In either **OPERATE** or **STANDBY** mode, press **MENU** for at least 2 seconds.

PACK AGE
30 DAYS



Press **MENU** several times to display

SET LANGUAGE
ENGLISH



Press **DISPLAY** to change between: English, French, German, Italian, Spanish or Japanese

SET LANGUAGE
FRANCAIS

To accept and go back to normal operating mode, press **MENU** button for 1 sec.

Purging the Pak

1. Install the connector (Figure 2,C) into the POU valve.

Note: **Do not use Teflon tap on the connector tread.** The seat of the valve contains an O-ring seal.
The part should turn easily. Do not force, otherwise the valve thread could be damaged.

2. Position a container under the outlet fitting.
3. Move the dispensing valve button down to open the valve.
4. Press the OPERATE button to switch from STANDBY to OPERATE mode.
5. After having drawn 1-2 litres of water from the system, close the valve.
6. If possible, leave the system in STANDBY mode overnight. This helps to hydrate the ion exchange resin inside the SimPak. This procedure is requested each time a new SimPak is installed.

Installing the SimFilter

Figure 5

1. Remove the connector (A) from the POU valve if installed.
2. Install the SimFilter (B) into the POU valve.

Note: Do not use teflon tape on the threading.

3. Press the OPERATE button to go from STANDBY to OPERATE mode.
4. Open the POU valve and draw around 0.5 litre of water through the SimFilter.
5. Switch the unit to STANDBY mode.

The system is now ready to produce high quality water.

The simplicity system should be used in the manner specified by this user's manual, otherwise the protection provided by this equipment may be impaired.

Maintaining a minimum level of water in the reservoir

The simplicity is fed through the reservoir located at the back of the unit. Whenever the water in the reservoir reaches half a liter level it is recommended to refill it.

If the simplicity runs out of water, proceed as follows:

1. Press the OPERATE button to go from OPERATE to STANDBY mode.
2. Refill the reservoir.
3. Replace the SimFilter by the hose barb connector and start the unit.
4. Open the POU valve, press OPERATE and draw approximately 0.2 litre of water.
5. Re-install the SimFilter.

Standard displayed messages

Your Simplicity system has a number of operating modes which can be activated via the keypad. Other modes are automatically activated by the microprocessor.

These different modes are displayed on the screen, and are described below:

OPERATING MODE DISPLAY	STATUS OF SYSTEM
STANDBY	While in this mode, the system is not producing purified water. Periodic recirculation is performed.
OPERATE PROD:18.2 MΩ.cm	System is running. Purified water can be delivered by opening the dispensing valve.
RECIRCULATION	In STANDBY mode, the system automatically recirculates the water 5 mn every 3 hours in order to maintain the water quality during periods of non-use.
OPERATE TEMP.19°C	System is running and displays the water temperature instead of the resistivity.
OPERATE 19.8 MΩ.cm 22.9°C	System is running. Purified water can be delivered. Resistivity measure is not compensated at 25 °C. Water resistivity and temperature are displayed permanently.

Cleaning

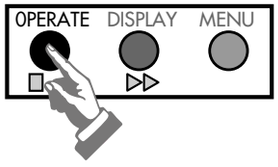
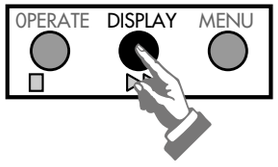
The exterior of the Simplicity may be cleaned using a soft cloth dampened with a mild detergent. Prior to cleaning assure that the system main AC power has been disconnected.

System maintenance messages

See section “Troubleshooting” pages 26 and 27.

The keypad allows the user to activate the different operating modes and to review information about consumables lifetime and system configuration.

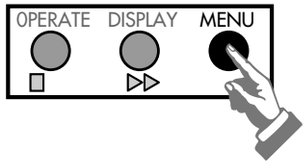
Standard menu

KEYPAD	ACTION	DISPLAY
STANDBY and OPERATE		
	Press the OPERATE keypad to switch between these two modes **STANDBY** **OPERATE**	STANDBY
	In **OPERATE** mode the system is ready to deliver water through the dispensing valve	OPERATE PROD: 18.2MΩ. cm
MEASURE		
	Press the **DISPLAY** button during **OPERATE** or **STANDBY** mode to display the water temperature. (Temperature display will be replaced by resistivity after 3 seconds).	OPERATE TEMP: 24.2°C

Consumable lifetime

KEYPAD | ACTION | DISPLAY

PAK LIFETIME



In either **OPERATE** or **STANDBY** mode,
press **MENU** for at least 2 seconds

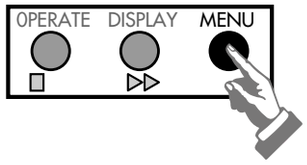
```
PACK AGE
45 DAYS
```

↓

(The pak must be replaced after a maximum 365 days in service)

UV LAMP USE (only Simplicity 185)

↓

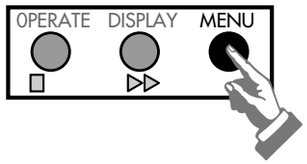
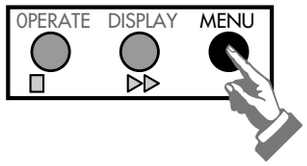
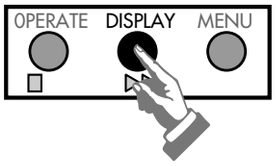
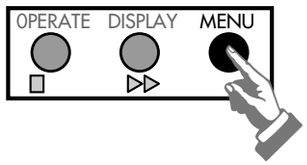



```
UV  LAMP  AGE
 9  DAYS
```

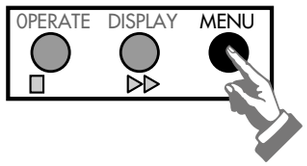
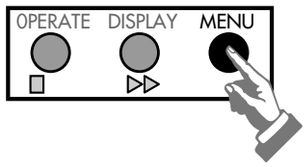
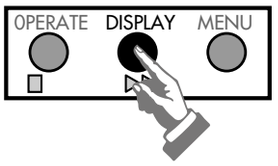
Press **MENU** once more to display the
UV lamp age.
To go back to normal operating mode,
maintain **MENU** button for 2 sec.

(The UV lamp must be replaced after a maximum 700 days in service)

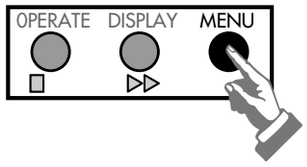
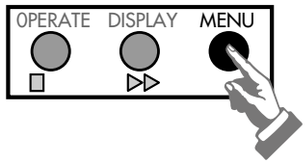
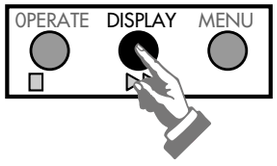
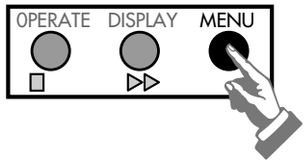
Choosing the non-temperature compensated resistivity display __

KEYPAD	ACTION	DISPLAY
	In either **OPERATE** or **STANDBY** mode, press **MENU** for at least 2 seconds ↓	PACK AGE 45 DAYS
	Press **MENU** button until it displays.	TEMP.CORRECTION ON
	Press **DISPLAY** once to select Temperature correction **OFF.**	TEMP.CORRECTION OFF
	To accept and go back to normal operating mode, press **MENU** button for 2 sec.	STANDBY
	(Example of displays in Operate mode)	OPERATE 19.8 Ω cm 22.9°C

Selecting the unit of measure

KEYPAD	ACTION	DISPLAY
	In either **OPERATE** or **STANDBY** mode Press **MENU** for at least 2 seconds.	PACK AGE 45 DAYS
	↓	
	Press several times **MENU** to display.	PRODUCTION UNIT MΩ . cm
	Press **DISPLAY** once to select MΩ.cm (resistivity) or µS/cm (conductivity).	PRODUCTION UNIT µS / cm
	To accept and go back to normal operating mode, press **MENU** button for 2 sec.	

Setting the displayed language

KEYPAD	ACTION	DISPLAY
	In either **OPERATE** or **STANDBY** mode Press **MENU** for at least 2 seconds.	PACK AGE 45 DAYS
	↓	
	Press **MENU** several times to display	SET LANGUAGE ENGLISH
	↓	
	Press **DISPLAY** to change between: English, French, German, Italian, Spanish or Japanese	SET LANGUAGE ESPAGNOL
	↓	
	To accept and go back to normal operating mode, press **MENU** button for 1 sec	STANDBY

UV lamp reset (Only for Simplicity 185)

See “Maintenance” chapter page 23.

Replacing the consumables

1. Put the Simplicity into STANDBY mode by pressing the OPERATE button. **Do not turn off the electrical power to the system**.
2. Remove the old SimFilter (Figure 5,B) from the Point of Use valve.
3. Open the Point Of Use valve for a few seconds to depressurize the system.
4. Swing the Pack locking handle (Figure 4,E) to the left by pressing on the locking tab (4,A).
5. Remove the old SimPak (4,D).
6. Remove the two protective caps on the new SimPak. Wet the two O-rings on the pak with a few drops of water.
7. Push the new SimPak firmly into the unit.
8. Secure the place by closing the locking handle (4,E).
9. Remove the reservoir cap (3,C) and install the Millex vent filter (3,D), shipped with the SimPak into the inner connector of the reservoir cap.
10. Install the connector (Figure 2,C) into the POU valve.

△ **Note:** Do not use Teflon tap on the connector tread

11. Position a container under the outlet fitting.
12. Move the dispensing valve button down to open the valve.
13. Press the OPERATE button to switch from STANDBY to OPERATE mode.
14. After having drawn 1-2 litres of water from the system, close the valve.
15. If possible, leave the system in STANDBY mode overnight. This helps to hydrate the ion exchange resin inside the SimPak. This only needs to be followed each time a new SimPak is installed.
16. Remove the connector (Figure 5,A) from the POU valve if installed.
17. Install the SimFilter (5,B) into the POU valve. **Do not use teflon tape on the threading.**

18. Press the OPERATE button to go from STANDBY to OPERATE mode
19. Open the POU valve and draw around 0.5 litre of water through the SimFilter.
20. Switch the unit to STANDBY mode.

The SimFilter should be changed whenever the product flowrate becomes too low (< 0.3 Litres/mn) or whenever the SimPak is replaced. The lifetime of the SimFilter is dependent upon the quality of the feedwater and dependent upon the amount of water dispensed through the unit. It is recommended to replace the filter during replacement of the SimPak.

Replacing the UV lamp (Only for Simplicity 185)

The UV lamp should be replaced every second year. The age of the UV lamp can be checked during normal use. See “Consumable lifetime” page 18.
When, the message “EXCHANGE UV LAMP” is displayed, proceed as follows.

UV Lamp replacement

△ **Note: The used UV lamp contains metallic mercury and should therefore be disposed of by the owner, in agreement with local regulations.**

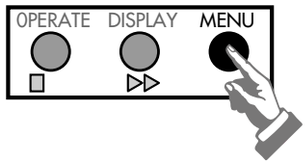
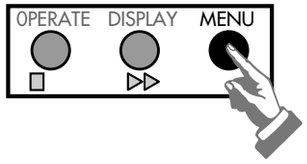
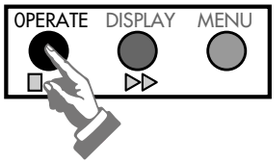
1. Put the Simplicity into STANDBY mode by pressing the OPERATE button. **Unplug the electrical power cord from the power source**.
2. Open the Point of Use valve for a few seconds to depressurise the system.
3. Swing the Pack locking handle (Figure 4,E) to the left by pressing on the locking tab (Figure 4,A).
4. Remove the SimPak.

WARNING: **Verify that there is no electrical power going to the Pack at this time. Accidental exposure to Ultraviolet light can cause damage to the eyes and skin.**

5. Push the UV lamp clip to the left and remove it (Figure 6,A).
6. The UV lamp can now be removed from the housing (Figure 6,B). Using the new UV Lamp, follow steps 1-5 in reverse order.

Note: Use the gloves to avoid getting fingerprints on the new UV lamp.

UV lamp reset

KEYPAD	ACTION	DISPLAY
	In either **OPERATE** or **STANDBY** mode, press **MENU** for at least 2 seconds	PACK AGE 45 DAYS
	↓	
	Press **MENU** several times to display	UV COUNTER RESET VALID:OP SWITCH
	↓	
	Maintain **OPERATE** button for at least 10 sec. to reset the UV lamp age. The unit goes automatically back to **STANDBY** mode.	STANDBY

Shutting down the system for an extended period of time

Keep the Simplicity in STANDBY mode when water is not needed for a few days. In this mode, the unit will operate all cycles to keep the water quality optimum.
If the Simplicity is to be shut down for a long time, drain the reservoir, remove the SimPak and Simfilter, and unplug the system. Upon start-up, new cartridges should be installed. For further information, please contact Millipore Technical Service.

Troubleshooting table

Whenever the Yellow SERVICE LED is blinking, a message is displayed on the screen, which indicates the nature of the service needed.

STATUS / PROBLEM	CAUSE	REMEDY
There is no electrical power to the system.	- No electrical power. - The power cord is not plugged into the wall.	Check the source of power. Check the power cord.
The Simplicity system is in PRODUCT mode but does not produce any or very little water.	- The tank is empty. - Tank is not well positioned - Clogged Point of use filter. - Tank vent filter plugged - Air is trapped in the SimPak and the SimFilter.	Fill the tank. Check tank position Replace the SimFilter Remove tank lid. If flowrate is OK, replace the vent filter. Remove the SimFilter, purge the system.
The system switches automatically from PRODUCTION mode to mode to STANDBY mode.	The simplicity is pre-set to produce continuously for 10 min. maximum.	Re-fill the reservoir if necessary and press on OPERATE button.
RESISTIVITY < SP	The reservoir is empty Resistivity is below the Set Point	Fill the reservoir Install new purification cartridges.

STATUS / PROBLEM	CAUSE	REMEDY
EXCHANGE PACK.	The operational lifetime of the purification Pack has expired.	Change the purification pack.
PACK OUT	The Pak has not been installed properly or has been removed.	Put the Pack back in place.
EXCHANGE UV LAMP	The operational lifetime of the UV lamp has expired.	Replace the UV lamp
CHECK UV LAMP	Defective UV lamp	Occurs when the UV lamp doesn't light anymore.
EEPROM ERROR	The unit needs to be initialised	Press the OPERATE button twice

Systems

Simplicity Water Purification System,	230 V 50 Hz	SIMS50000
Simplicity Water Purification System,	115 V 60 Hz	SIMS60000
Simplicity 185 Water Purification System,	230 V 50 Hz	SIMS5V000
Simplicity 185 Water Purification System,	115 V 60 Hz	SIMS6V000

Consumables

SimPak 1 Kit, for Distilled, RO or Elix feed (Includes SimPak 1, SimFilter and Vent Filter)	SIMPAKKR1
SimPak 2 Kit, for DI feed (Includes SimPak 2, SimFilter and Vent Filter)	SIMPAKKD2
SimPak 1 purification pack	SIMPAK0R1
SimPak 2 purification pack	SIMPAK0D2
SimFilter Final Filter	SIMFILTER
Reservoir Vent Filter	SIMVENT00
Spare Reservoir	SIMTANK01
UV Lamp Simplicity	SIM0000UV

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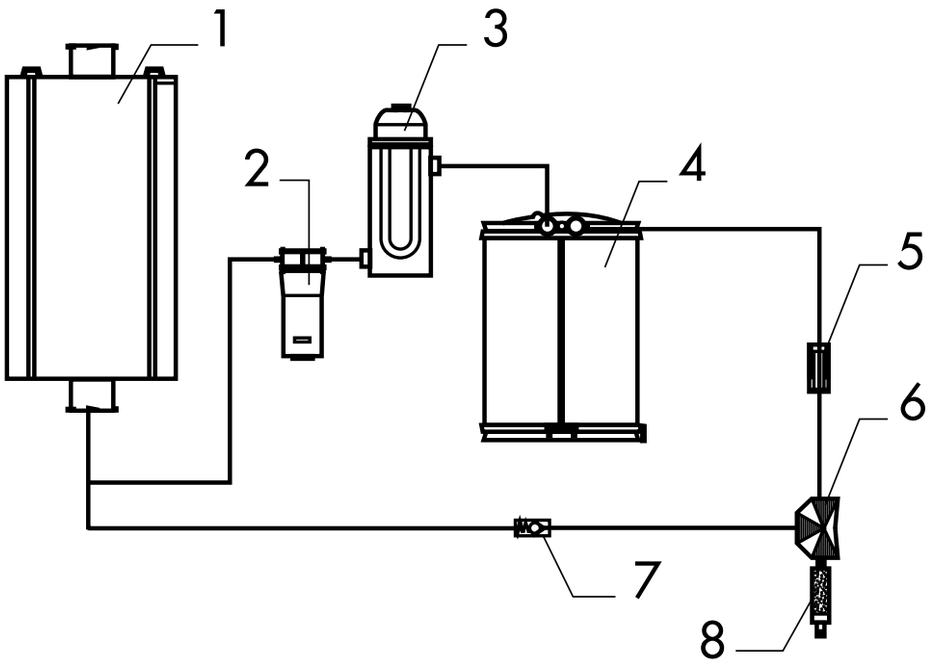
Figure 1

The water flow schematic of the Simplicity is shown below. Only the main components are shown.



Reservoir	1
Pump	2
* UV Lamp	3
Pak	4
Resistivity cell	5
Point of use with dispensing valve	6
Check valve	7
Final filter	8

* Only present on Simplicity 185.

Figure 2

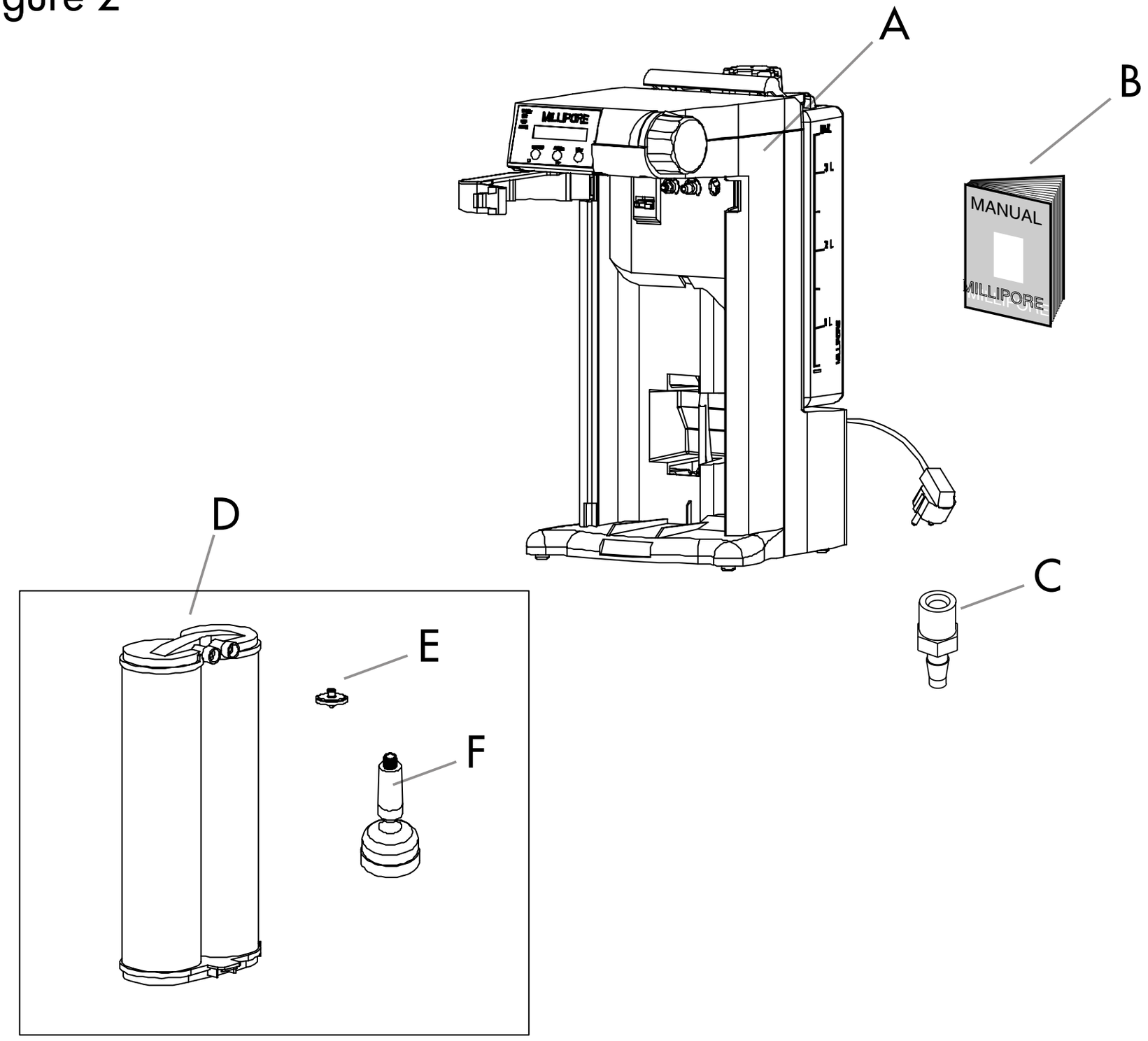


Figure 3

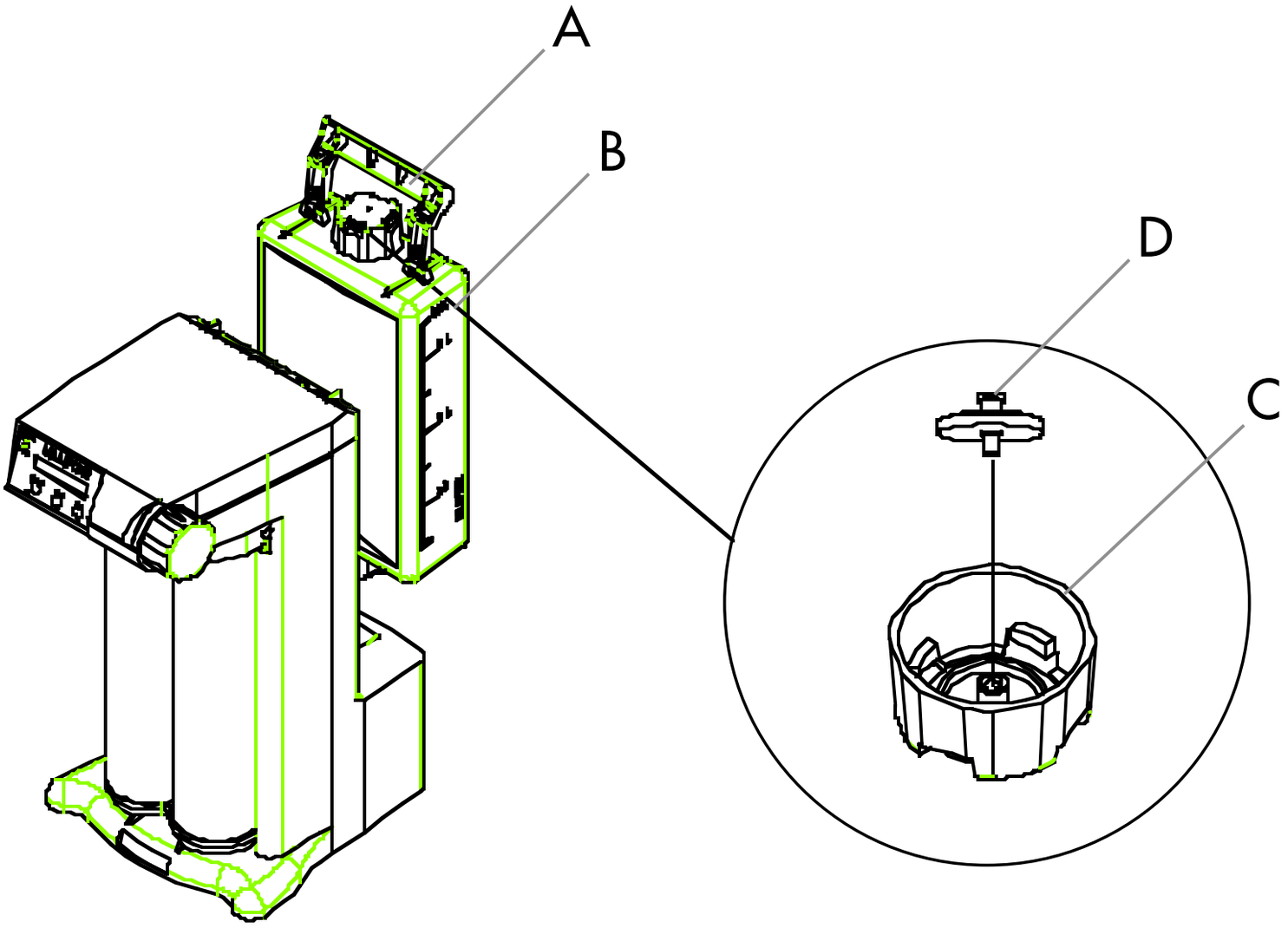


Figure 4

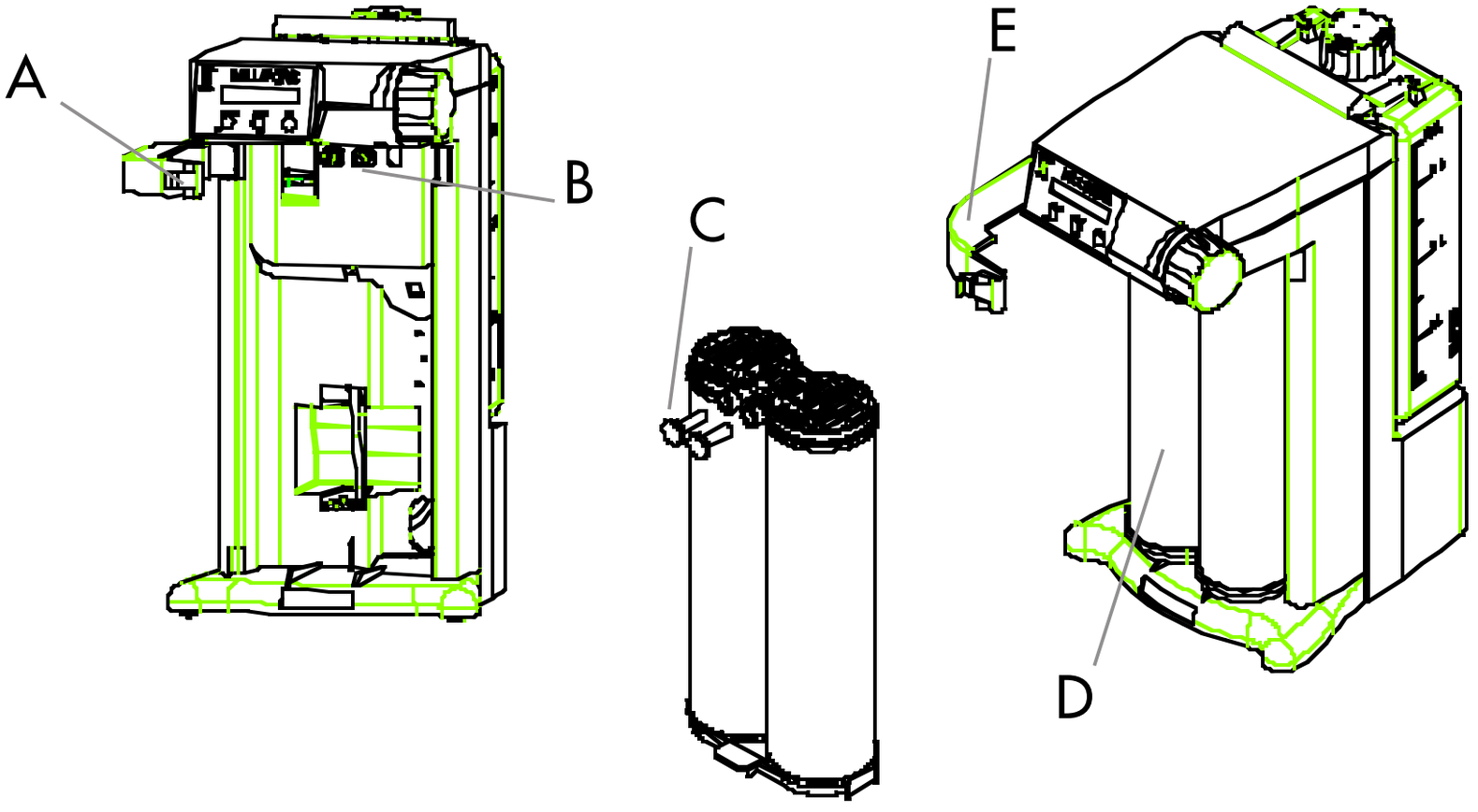


Figure 5

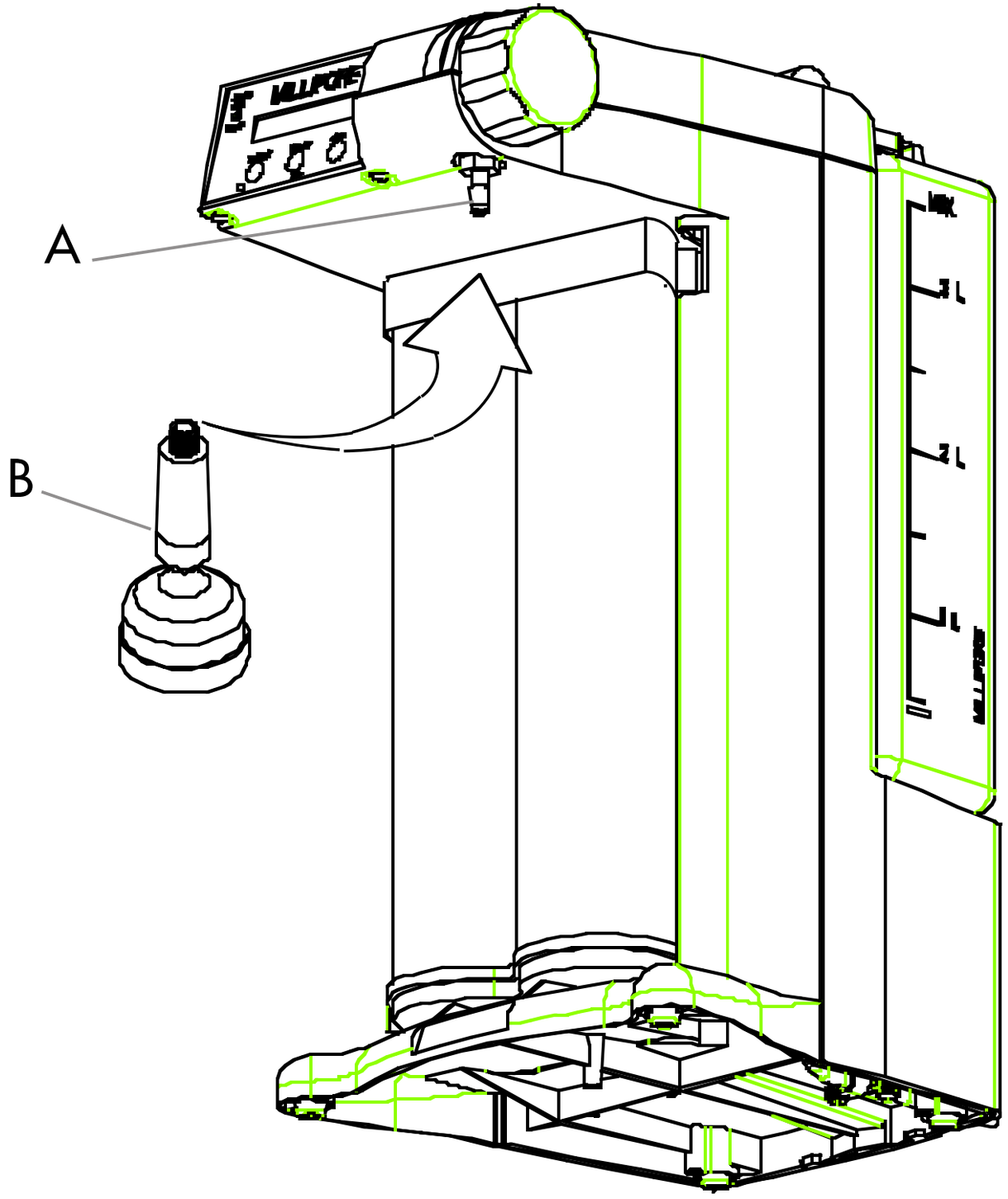
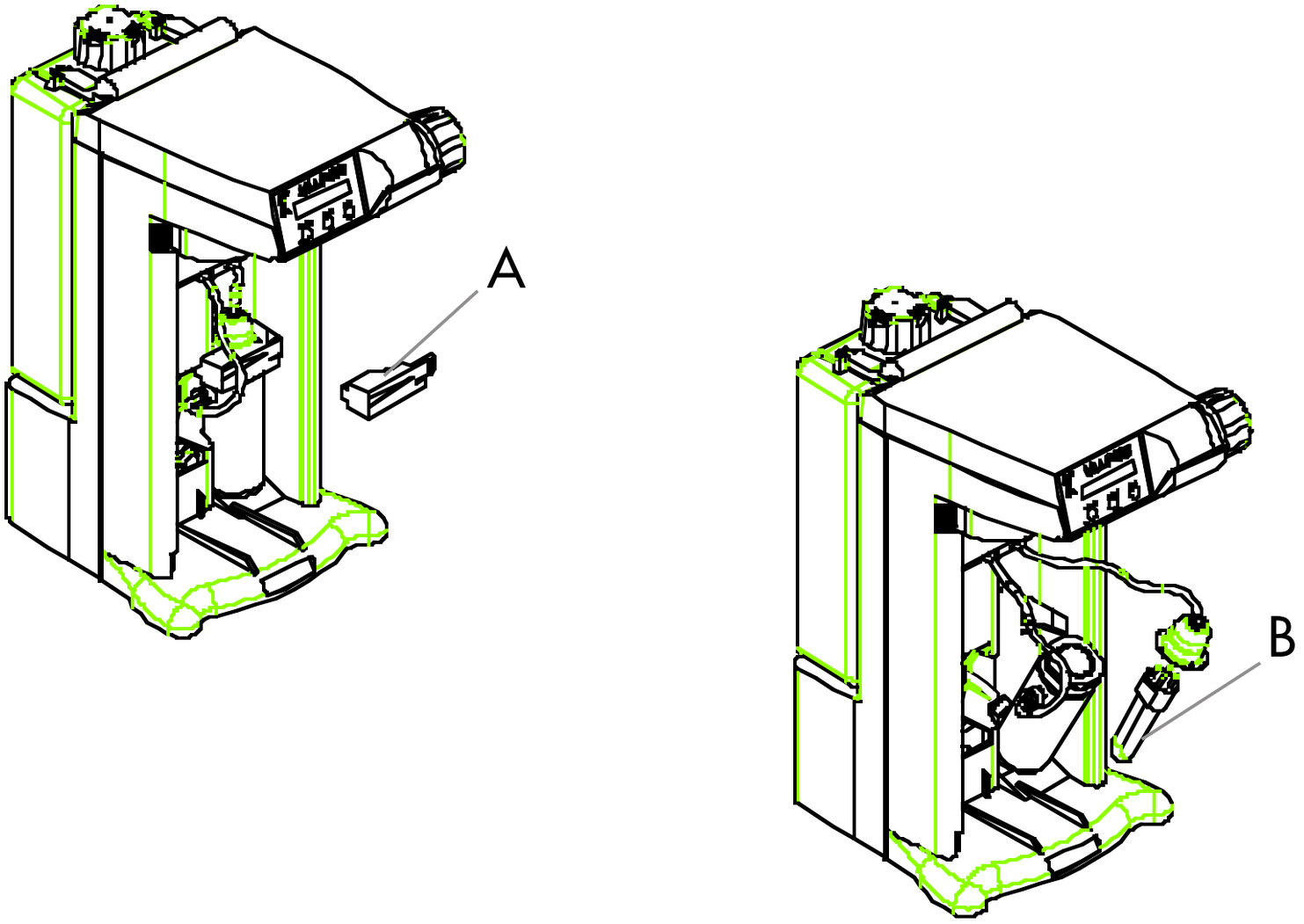


Figure 6



To Place an Order or Receive Technical Assistance
For additional information call the nearest number listed below:
In the U.S. and Canada, call toll-free 1-800-MILLIPORE (1-800-645-5476)
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